

### **ABSTRACT OF THE DISCLOSURE**

A cathode for use in the refining or winning of metals, typically used in the electro-refining or winning of copper, comprising a substantially flat deposition plate fixedly attached along an upper edge thereof to an elongate hanger bar thereby defining a connection. A protective cladding is attached to the deposition plate and at least partially surrounding the hanger bar such that a cavity is defined in the region of the connection. A corrosion resistant material fills the cavity. In this manner the corrosion resistant material prevents corrosive substances from penetrating the connection. The corrosion resistant material prevents corrosive electrolytic solution and other liquids from corroding the conductive connection between the deposition plate and the hanger bar which would otherwise reduce efficiency of the cathode.